**AP Calculus BC – Problem Set #1 - Limits**

1. Evaluate  for the function  numerically by using a T-Chart **(Make sure that you use radians!!!)**. State the limit and justify your answer using the one-sided limits.

Use the function below to answer questions 2 – 9.



2.)  3.) 

4.)  5.) 

6.)  7.)  

8.)  9.) 

For #’s 10 – 13, determine if the limit exists and, if it does, evaluate it **algebraically**. If the limit does not exist, **explain** how you know.

10.) 

1. 
2. 
3. 

AP Questions on Limits – For each question, select the best answer and **explain your reasoning**.

1. 
2. 